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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,904	04/21/2006	Olivier Bezencon	AC-04-US	6166

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EXAMINER

CHANDRAKUMAR, NIZAL S

ART UNIT	PAPER NUMBER
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1625

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11/16/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/576,904	Applicant(s) BEZENCON ET AL.	
	Examiner Nizal S. Chandrakumar	Art Unit 1625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-14 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

This application filed 04/21/2006 is a 371 of PCT/EP04/11704 10/18/2004. Claims 1-14 are before the Examiner and subject to the following Election/Restrictions.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 11-14, drawn to compounds of formula I wherein X = $-\text{CH}_2-\text{CH}(\text{K})-\text{CH}_2-$

Group 2, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{CH}_2-$

Group 3, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{OCH}_2-$

Group 4, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{SCH}_2-$ in addition to compounds wherein the S is oxidized to sulfoxide or sulfone.

Group 5, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CO}-\text{NL}-\text{CHR}^6-$

Group 6, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CHR}^6-\text{NL}-\text{CO}-$

Group 7, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CH}_2-\text{CH}(\text{K})-\text{CH}_2-$

Group 8, claim(s) 1-9, drawn to compounds of formula I wherein X = $-\text{CH}_2-\text{CH}(\text{K})-\text{CH}_2-$

Group 9, claim(s) 10, drawn to compounds of formula I wherein X = $-(\text{CH}_2)_m-\text{N}(\text{L})-(\text{CH}_2)_m-$

Group 10, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CH}_2-\text{CH}(\text{K})-\text{CH}_2-$

Group 11, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{CH}_2-$

Group 12, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{OCH}_2-$

Group 13, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CH}_2\text{SCH}_2-$ in addition to compounds wherein the S is oxidized to sulfoxide or sulfone.

Group 14, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CO}-\text{NL}-\text{CO}-$

Group 15, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CO}-\text{NL}-\text{CHR}^6-$

Group 16, claim(s) 10, drawn to compounds of formula I wherein X = $-\text{CHR}^6-\text{NL}-\text{CO}-$

Group 17, claim(s) 11-14, drawn to compounds of formula I wherein X = $-\text{CH}_2-\text{CH}(\text{K})-\text{CH}_2-$

Group 18, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $-\text{CH}_2\text{CH}_2-$;

Group 19, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $-\text{CH}_2\text{OCH}_2-$

Group 20, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $-\text{CH}_2\text{SCH}_2-$ in addition to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds wherein the S is oxidized to sulfoxide or sulfone.

Group 21, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $-\text{CO}-\text{NL}-\text{CHR}^6-$;

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Group 22, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CHR^6-NL-CO-$

Group 23, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2-CH(K)-CH_2-$

Group 24, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2-CH(K)-CH_2-$

Group 25, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -(CH_2)_m-N(L)-(CH_2)_m-$

Group 26, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2-CH(K)-CH_2-$

Group 27, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2CH_2-$

Group 28, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2OCH_2-$

Group 29, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including

prophylaxis of various disease using compounds of formula I wherein $X = -CH_2SCH_2-$ in addition to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds wherein the S is oxidized to sulfoxide or sulfone.

Group 30, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = -CO-NL-CO-

Group 31, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $\text{-CO-NL-CHR}^6\text{-}$

Group 32, claim(s) 11-14, drawn to pharmaceutical compositions and methods of treatment, including prophylaxis of various disease using compounds of formula I wherein X = $\text{-CHR}^6\text{-NL-CO-}$

The inventions listed as Groups 1-32 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The common technical feature is tetrahydropyridine moiety. This element cannot be a special technical feature under PCT Rule 13.2 because this element is shown in the prior art in isoguavacine, see US 5627169.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction were not required; because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

With regards to election of species pertaining, Applicants is reminded of the following:

Each of the above compound groups could be subjected to further restriction depending on the other variables present in the formula. For example, Group 1 could be subjected to further restriction depending on the Ws which lead to 8 groups, each of which could be further restricted based on Vs which lead to 200 groups, each of which could be further restricted based on Us which lead to 400 groups each of which could be further restricted based on T which could lead to 2000 groups each of which could be further restricted based on Q which could lead to 4000 groups which could be further restricted based on M which could be further restricted based on 16000 groups. **These 16000 groups encompass trillions of compounds based on independently varying lower case alphabet repeating units such as**

p is the integer 1, 2, 3 or 4;

r is the integer 1, 2, 3, 4, 5, or 6;

s is the integer 1, 2, 3, 4, or 5;

t is the integer 1, 2, 3, or 4;

u is the integer 1, 2, or 3;

v is the integer 2, 3, or 4;

w is the integer 1 or 2;

as well as based on the plethora of R groups layered on top of other R substituents, undefined substituents (for example heteroaryl, alkylene, alkenylene etc).

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is

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no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i). Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nizal S. Chandrakumar whose telephone number is 517-272-6202. The examiner can normally be reached on 8.30 am - 5 pm Monday- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571-272-0867 or Primary Examiner D. Margaret Seaman can be reached at 571-272-0694. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Nizal S. Chandrakumar



D. MARGARET SEAMAN
PRIMARY EXAMINER